Notice of Allowability	Application No.	Applicant(s)
	08/533,895	TOPALIAN ET AL.
	Examiner	Art Unit
	F. Pierre VanderVegt	1644
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in the b) or other appropriate communic RIGHTS. This application is sub	is application. If not included cation will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>papers filed 3/19/04</u>		·
2. X The allowed claim(s) is/are 100,107-137 and 192-220.		
3. \boxtimes The drawings filed on <u>13 June 2003</u> are accepted by the	Examiner.	
 4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	ve been received. ve been received in Application N	No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	rson's Patent Drawing Review (- r's Amendment / Comment or in 1.84(c)) should be written on the c	the Office action of drawings in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ⊠ Interview Sum Paper No./Ma 7. ⊠ Examiner's Am	il Datè <u>06092004</u> .

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DETAILED ACTION

Claims 1-99, 101 and 104-106 have previously been canceled.

Claims 138-191, presented after-final, were not entered.

New claims 192-218 have been added.

Accordingly, claims 100, 102-103, 107-137 and 192-218 are currently pending and are the subject of examination in the present Office Action.

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 19, 2004 has been entered.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Julie Hong on June 9, 2004.

The application has been amended as follows:

IN THE CLAIMS:

In claim 100, line 6, both recitations of "about" have been deleted.

In claim 114, line 1, the recitation of "The" has been replaced by --A single-chain Class II-MHC-peptide construct comprising the--.

In claim 114, line 2, the recitation of "a" has been replaced by --an immunogenic peptide binding--.

In claim 115, line 1, the recitation of "immunogenic peptide" has been replaced by

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-- single-chain Class II-MHC-peptide construct--.

In claim 115, line 2, the phrase --immunogenic peptide binding-- has been inserted before the recitation of "portion".

In claim 116, line 2, the recitation of "an" has been replaced by --the--.

In claim 117, line 1, the phrase --MHC Class II molecule or an immunogenic peptide binding portion thereof linked to the-- has been inserted before "immunogenic".

In claim 117, line 2, the recitation of "114" has been replaced by --100--.

In claim 192, line 1, the recitation of "An" has been replaced by --A derivative of an--.

In claim 192, line 3, the recitation of "portion comprises" has been replaced by --derivative consists of--.

In claim 192, line 5, the recitation of "portion comprises" has been replaced by --derivative consists of--.

In claim 192, line 7, both recitations of "about" have been deleted.

In claim 192, line 7, the phrase --derivative of an isolated immunogenic-- has been inserted before "peptide".

In claim 193, line 1, the phrase --derivative of an-- has been inserted before "isolated".

In claim 194, line 1, the phrase --derivative of an-- has been inserted before "isolated".

In claim 195, line 1, the recitation of "The" has been replaced by --A single-chain Class II-MHC-peptide-construct comprising the derivative of an--.

In claim 195, line 2, the recitation of "a" has been replaced by --an immunogenic peptide binding--.

In claim 196, line 1, the recitation of "isolated immunogenic peptide" has been replaced by --single-chain Class II-MHC-peptide construct--.

In claim 196, line 1, the phrase --immunogenic peptide binding-- has been inserted before the recitation of "portion".

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In claim 197, line 1, the phrase -- the derivative of -- has been inserted before "an".

In claim 198, line 1, the phrase -- an MHC Class II molecule or an immunogenic peptide binding portion thereof is linked to the derivative of -- has been inserted before "an".

In claim 198, line 2, the recitation of "195" has been replaced by --192--.

Claims 102 and 103 have been canceled without disclaimer, having been replaced by the following new claims:

- --219. (New) A derivative of an isolated immunogenic peptide consisting of a portion of SEQ ID NO: 39 comprising at least 9 contiguous amino acids from amino acids 56-70 of SEQ ID NO: 39, wherein the immunogenic peptide is 9 to 34 amino acids in length and is recognized by a CD4⁺ lymphocyte restricted by a major histocompatibility complex (MHC) class II molecule, wherein the derivative consists of a substitution of amino acid 65 of SEQ ID NO: 39 with a valine.
- --220. (New) A derivative of an isolated immunogenic peptide consisting of a portion of SEQ ID NO: 39 comprising at least 9 contiguous amino acids from amino acids 448-462 of SEQ ID NO: 39, wherein the immunogenic peptide is 9 to 34 amino acids in length and is recognized by a CD4⁺ lymphocyte restricted by a major histocompatibility complex (MHC) class II molecule, wherein the derivative consists of a substitution of amino acid 451 of SEQ ID NO: 39 with a phenylalanine.--

Examiner's Comments

3. No new matter has been introduced by this amendment. The recitation of "derivative" in claims 192-220 is supported in the specification or claims as originally filed at pages 8-9 for example. The recitation of "single-chain Class II-MHC-peptide construct" in claims 114, 115, 195 and 196 is supported on pages 27-28 for example.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to F. Pierre VanderVegt whose telephone number is (571) 272-0852. The examiner can normally be reached on M-Th 6:30-4:00; Alternate Fridays 6:30-3:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on (571) 272-0841. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

F. Pierre VanderVegt, Ph.D. Avalent Examiner
June 9, 2004

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